From the INTERNATIONAL SEARCHING AUTHORITY To: PCT WILLIAM C. GEARY, III NUTTER MCCLENNEN & FISH LLP NOTIFICATION OF TRANSMITTAL OF WORLD TRADE CENTER WEST THE INTERNATIONAL SEARCH REPORT AND 155 SEAPORT BOULEVARD THE WRITTEN OPINION OF THE INTERNATIONAL BOSTON, MA 02210-2604 SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 101896-0370 International application No. International filing date PCT/US05/34689 (day/month/year) 28 September 2005 (28.09.2005) Applicant DEPUY SPINE, INC.  $\boxtimes$ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70. For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under 2. Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: 3. the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis. I and 90bis. 3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US

> Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201 Form PCT/ISA/220 (January 2004) Authorized officer

Eduardo C. Robert

Telephone No. (571) 272-47-19

(See notes on accompanying sheet)

From the INTERNATIONAL SEARCHING AUTHORITY To: WILLIAM C. GEARY, III NUTTER MCCLENNEN & FISH LLP NOTIFICATION OF TRANSMITTAL OF WORLD TRADE CENTER WEST THE INTERNATIONAL SEARCH REPORT AND 155 SEAPORT BOULEVARD BOSTON, MA 02210-2604 THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) 23 NOV 2007 Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 101896-0370 See paragraphs 1 and 4 below International application No. International filing date PCT/US05/34689 (day/month/year) 28 September 2005 (28.09.2005) Applicant DEPUY SPINE, INC.  $\boxtimes$ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority 1. have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70. For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for

entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Authorized officer

Eduardo C. Robert

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Form PCT/ISA/220 (January 2004)

Facsimile No. (571) 273-3201

111.00

(See notes on accompanying sheet)

## **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 101896-0370		Form PCT/ISA/220 nere applicable, item 5 below.
International application No. PCT/US05/34689	International filing date (day/month/year) 28 September 2005 (28.09.2005)	(Earliest) Priority Date (day/month/year) 21 June 2005 (21.06.2005)
Applicant DEPUY SPINE, INC.		
This international search report consists of the search report con	by a copy of each prior art document cited international search was carried out on the base pplication in the language in which it was file international application into	in this report. is of: ed, which is the language h (Rules 12.3(a) and 23.1(b))
	ed by the applicant. according to Rule 38.2(b), by this Authority as	
6. With regard to the drawings, a. the figure of the drawings to be put as suggested by the approximation as selected by this Au	blished with the abstract is Figure No. 1 pplicant. thority, because the applicant failed to suggest thority, because this figure better characterizes	t a figure.

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/34689

A. CLAS IPC:	SSIFICATION OF SUBJECT MATTER A61F 2/30( 2006.01)			
USPC: According to	606/61 International Patent Classification (IPC) or to both nat	tional classification and IPC		
B. FIELI	DS SEARCHED			
Minimum do U.S. : 60	cumentation searched (classification system followed b	y classification symbols)		
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
Electronic da	ta base consulted during the international search (name	of data base and, where practicable, search	n terms used)	
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
X	US 2004/0002708 A1 (RITLAND) 01 January 2004 (01.01.2004), whole document.		1-28	
X	US 2004/0133203 A1 (YOUNG et al) 08 July 2004 (08.07.2004), whole document.		1-5,10-15,18-20	
Further documents are listed in the continuation of Box C. See patent family annex.				
"A" document particular	pecial categories of cited documents:  defining the general state of the art which is not considered to be of relevance plication or patent published on or after the international filing date	"T" later document published after the interdate and not in conflict with the application principle or theory underlying the invertex."  "X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone	ation but cited to understand the ation Iaimed invention cannot be	
establish ( specified)		"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such being obvious to a person skilled in the	when the document is documents, such combination	
	referring to an oral disclosure, use, exhibition or other means			
priority d	t published prior to the international filing date but later than the ate claimed	"&" document member of the same patent f		
	ctual completion of the international search	Date of mailing of the international search	NOV/ 2007	
<u></u>	07 (05.08.2007)	Authorized officer	NO A SOUT	
Mai Con P.O Alex	ailing address of the ISA/US I Stop PCT, Attn: ISA/US Inmissioner for Patents Box 1450 xandria, Virginia 22313-1450 . (571) 273-3201	Eduardo C. Robert  Telephone No. (571) 272-4719	e Jan	

Form PCT/ISA/210 (second sheet) (April 2005)

From the INTERNATIONAL SEA	RCHING AUTH	ORITY		
To: WILLIAM C. GEARY, III NUTTER MCCLENNEN & FISH LLP WORLD TRADE CENTER WEST 155 SEAPORT BOULEVARD BOSTON, MA 02210-2604		PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
				(PCT Rule 43bis.1)
			Date of mailing (day/month/year)	23 NOV 2007
Applicant's or agent's fi	le reference		FOR FURTHER	R ACTION See paragraph 2 below
International application	No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US05/34689		28 September 2005 (28.	09.2005)	21 June 2005 (21.06.2005)
International Patent Class	sification (IPC) o	or both national classificat		
IPC: A61F 2/30(20 USPC: 606/61 Applicant	006.01)			
DEPUY SPINE, INC.				
1. This opinion contain	ns indications rela	ting to the following item	s:	
Box No. I	o. I Basis of the opinion			
Box No. II	Priority	Priority		
Box No. III	Non-establis	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
Box No. IV	Lack of unit	Lack of unity of invention		
Box No. V		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
Box No. VI	Certain docu	Certain documents cited		
Box No. VII	Certain defe	Certain defects in the international application		
Box No. VIII Certain observations on the international application				
2. FURTHER ACT	ION			
International Prelim Authority other than	inary Examining this one to be the	Authority ("IPEA") ex	cept that this does PEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an le International Bureau under Rule 66.1bis(b) ered.
IPEA a written reply	together, where 20 or before the ex	appropriate, with amendra xpiration of 22 months from	nents, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
3. For further details, so	ee notes to Form l	PCT/ISA/220.		
Name and mailing addre	ss of the ISA/US	Date of complet	ion of this opinion	Authorized officer \
Mail Stop PCT, A Commissioner fo P.O. Box 1450	attn: ISA/US	05 August 2007	•	Eduardo C. Robert

Telephone No. (571) 272-4719

Alexandria, Virginia 22313-1450
Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/34689

	o. I Basis of this opinion
1. With r	egard to the language, this opinion has been established on the basis of:
	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With re inventi	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
:	table(s) related to the sequence listing
ь.	format of material
Į	on paper
[	in electronic form
c. t	time of filing/furnishing
[	contained in the international application as filed.
[	filed together with the international application in electronic form.
[	furnished subsequently to this Authority for the purposes of search.
	to some purposes of semon.
U	n addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the pplication as filed or does not go beyond the application as filed, as appropriate, were furnished.
	al comments:
	-
DCT/IC	V237(Box No. I) (April 2005)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/34689

Statement		
Novelty (N)	Claims NONE	YES
	Claims 1-28	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-28	NO NO
Industrial applicability (IA)	Claims 1-28	YES
	Claims NONE	NO
Citations and explanations:		
ims 1-5, 10-15, 18-20 lack novelty under PC lisclose an implant for stabilizing adjacent vertional language recited in the claims, it is not hes, but rather it is only necessary that the claim and device is intended to be employed does not be claim that it is claim and the claim an	The claimed apparatus from prior art apparatus satisfying The Article 33(2) as being anticipated by Young et al. (Certebrae including all the structural limitations set forth oted that anticipation does not require that the reference aims under attack "read on" something in the reference not differentiate the claimed apparatus from prior art and apparatus from prior art are referentiated the claimed subject matter can be refered to the claimed subject matter can be r	US 2004/0133203 A1). Young of in the claims. With regard to the "teach" what the subject patene. Furthermore, the manner in apparatus satisfying the claimed

### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

#### The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis. 1(c)).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume I/A, paragraph 296).

## What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having When? been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

Either by cancelling one ormore entire claims, by adding one or more new claims or by amending the text of one How? or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.